[3] Edelstein, (1982), L. The propagation of fungal colonies: A model for tissue growth. Journal of theoretical Biology, J theor.Biol.

[4] K. and Yamada,(2004) ,Y. Multiple coexistence states for a prey-predator system with cross-diffusion Journal of Differential Equations .

[5] William Boyce and Richard DiPrima, (2005), Elementary Differential Equations and Boundary ValueProblems. John Wiley & Sons Ltd., Hoboken, N.J., eight edition.

[6] ,Schnepf,A. and Roose,T.2006, Modelling the contribution of arbuscular mycorrhizal fungi to plant nutrient uptake. New Phytol

[7] Dennis G.Zill. AFirst Course in Differential Equations with Modeling Application, Tenth edition, Brooks/Cole, United State of America. (2016).

[8] Mathematical Modeling Spring. (2018).

[9] Zainab Jaafar Abdulrazzaq, 2021, Mathematical Model of Growth Fungal Colonies.

[10] Adam, Special report, 2020, the simulations driving the world's response to COVID-19, Nature